AQT8-IP

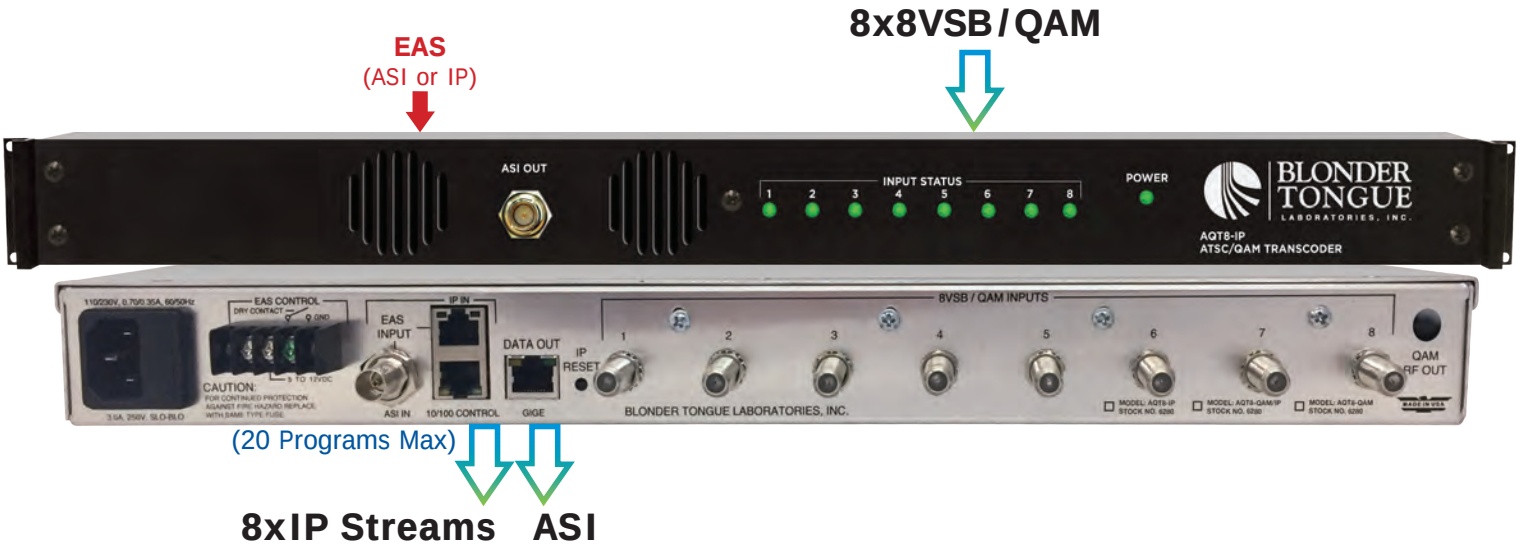
ATSC/QAM Transcoding

SOLUTIONS FOR ALL YOUR APPLICATIONS

The **AQT8-IP** is especially designed to allow operators to create a customized channel line up from off-air and/or cable feeds for IPTV distribution. The customizable IP output contains up to 20 programs with a combination of SPTS and/or MPTS across eight (8) IP addresses from eight (8) RF input sources.

The unique MPEG-2 tables (PAT, PMT, PSIP, VCT and MGT) associated with each of the selected input programs are transferred to the IP outputs. This means the virtual channel numbers and program names on the IP outputs can be the same as their RF program input sources. Additionally, the unit gives the user the ability to change the PID, Program #, Short Name, Major and Minor Channel (PSIP) information.

The **AQT8-IP** features Emergency Alert System (EAS) program switching through either an ASI or IP format EAS input, and terminal block contacts for triggering EAS messages.



Features

- Accepts up to eight (8) RF inputs in 8VSB/QAM format
- Provides a combination of eight SPTS or MPTS via one GigE RJ45 port
- PSIP manipulation
- Supports Closed Captioning EIA-608 and EIA-708 when embedded in RF input(s)
- Accepts EAS input in ASI or IP formats
- Supports EAS switching-based on contact closure trigger, or +5 to +12 VDC input
- ASI output provides in-service monitoring of selected IP output address
- Provides comprehensive GUI-based remote monitoring and control via any standard Web browser

Ordering Information

Model	Stock #	Description
AQT8-IP	6280	ATSC/QAM Transcoder; 8xATSC/QAM inputs; Customizable 8xIP outputs with EAS

Made in U.S.A.

Rev: 051817
Blonder Tongue is ISO 9001:2015 Certified

Specifications

Input

Connectors	**8VSB/QAM:**	8x "F" Female
8VSB Mode	**Standard:**	ATSC Digital Television A/53E
	Tuning Range:	UHF (Ch. 14-69), VHF (Ch. 2-13)
	Data Rate:	19.392 Mbps
	Bandwidth:	6 MHz
	Power Level:	-20 to +20 dBmV
	Impedance:	75 Ω
QAM Mode	**Standard:**	ITU-T J.83 - Annex A & B (64 and 256 QAM)
	Tuning Range:	CATV Ch. 2-135 (STD, HRC, IRC)
	Data Rate:	38.8 Mbps (QAM 256); 26.97 Mbps (QAM 64) – Auto Detect
	Bandwidth:	6 MHz
	Power Level:	-15 to 20 dBmV (@ QAM 256); -20 to 20 dBmV (@ QAM 64)
	Impedance:	75 Ω
Emergency Alert System		
ASI	**Connector:**	1x BNC Female
	Standard:	DVB-ASI; EN 50083-9 (SPTS)
IP	**Connector:**	1x RJ45
	Standard:	10/100Base-T
	UDP/RTP:	Supported (user-selectable)
Video Bit Rate:		Single program video bit rate of 2.5 Mbps (typical). The EAS program bit rate must not exceed the lowest program video bit rate it will replace. For example, EAS at 2.5 Mbps will not work for a program at 2.0 Mbps.
Trigger	**Connectors:**	Terminal Block
	Trigger Mechanism:	5-12 VDC & Dry Contact Closure

Output

IP:		
	Connectors:	1x RJ45 (Rear-panel)
	Standard:	1000Base-T Ethernet (GigE)
	UDP/RTP:	Supported (user-selectable)
	Address Assignment:	8x IPv4 addresses & port numbers (user-selectable)
ASI		
	Connector:	1x BNC Female
	Standard:	DVB-ASI; EN 50083-9

General

Dimensions (W x D x H):	19.0 x 16.0 x 1.75 inches (483 x 363 x 44 mm)
Power:	110 /230 VAC 60/50 Hz
Power Dissipation:	50 W
Weight:	12 lbs (5.5 kg)
Operating Temperature:	32 to 122 °F (0 to 50 °C)
Storage Temperature:	-13 to 158 °F (-25 to 70 °C)
Operating Humidity:	0 to 95% RH @ 35 °C max, non-condensation
Storage Humidity:	0 to 95% RH @ 35 °C max, non-condensation

Alarms / Monitoring / Control

Local Monitoring:	8 Channel LEDs 1x Power LED
Local Control:	1x IP Reset Button
Remote Monitoring/Control:	GUI-based menu via standard Web browser (1x RJ45 rear panel connector; 10/100Base-T)

AQT8 Series Model Comparison

Stock #	Model	Input	QAM Output	IP Output
6280	**AQT8-IP**	**8VSB or Clear QAM**	**Not Applicable**	**Customizable IP Output** • 8 IP Outputs with EAS* • Program selectable from input • 20 programs max • PSIP Manipulation
6281	**AQT8-QAM/IP**	**8VSB or Clear QAM**	• Selectable 8 QAM Outputs ("Default IP" Mode with EAS*) • PSIP Manipulation • Pass-Thru Mode Output ("Default RF" Mode w/o EAS and no program selection)	**Customizable IP Output** • 8 IP Outputs with EAS* • Program selectable from input • 20 Programs Max • PSIP Manipulation
6288	**AQT8-QAM**	**8VSB or Clear or Encrypted QAM**	**Pass-Thru Mode Output** • 8 QAM outputs with EAS* • No program selection • One input maps to one output	**Pass-Thru IP Output** • 8 IP outputs with EAS* • No program selection • One input maps to one TS

* EAS stream will replace the input stream (clear or scrambled) and will remain unchanged. For example, if a clear EAS stream replaces a scrambled input stream, the output will be a clear EAS stream.

Related Product

Model	Stock #	Description
BT-HE-DASHBOARD	2772	Headend Controller supports up to 20 AQT8-IP, AQT8-QAM/IP, HDE-8C-QAM w/Opt 2, and/or HDE-8C-QAM DIN (Opt 2), providing operators the ease and convenience of controlling, monitoring and updating multiple supported devices through a single IP address.

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